

AMENDMENTS TO THE SPECIFICATION

- Please replace the paragraph starting on page 8, line 13 with the following amended paragraph:

In certain embodiments, a secreted ColoUp2 polypeptide is selected from among: a) a secreted polypeptide produced by the expression of a nucleic acid that is at least 95% identical to the ~~amino~~ nucleic acid sequence of SEQ ID No: 5; b) a secreted polypeptide produced by the expression of a nucleic acid that is a naturally occurring variant of SEQ ID No: 5; c) a secreted polypeptide produced by the expression of a nucleic acid that hybridizes under stringent conditions to a nucleic acid sequence of SEQ ID No: 5; d) a secreted polypeptide having a sequence that is at least 95% identical to the amino acid sequence of SEQ ID No: 3; and e) a secreted polypeptide having a sequence that is at least 95% identical to the amino acid sequence of SEQ ID No: 21. Optionally, the secreted ColoUp2 polypeptide is produced by the expression of a nucleic acid having the sequence of SEQ ID No: 5, and preferably the secreted ColoUp2 polypeptide is produced by the expression of a nucleic acid sequence that is at least 98%, 99% or 100% identical to the nucleic acid sequence of SEQ ID No: 5. In certain embodiments, the secreted ColoUp2 polypeptide has an amino acid sequence that is at least 98%, 99% or 100% identical to an amino acid sequence selected from among SEQ ID No: 3 and SEQ ID No:21. In certain embodiments, the secreted ColoUp1 polypeptide is selected from among: a) a secreted polypeptide produced by the expression of a nucleic acid that is at least 95% identical to the amino acid sequence of SEQ ID No: 4; b) a secreted polypeptide produced by the expression of a nucleic acid that is a naturally occurring variant of SEQ ID No: 4; c) a secreted polypeptide produced by the expression of a nucleic acid that hybridizes under stringent conditions to a nucleic acid sequence of SEQ ID No: 4; d) a secreted polypeptide having a sequence that is at least 95% identical to the amino acid sequence of SEQ ID No: 1; and e) a secreted polypeptide having a sequence that is at least 95% identical to the amino acid sequence of SEQ ID No: 2. Optionally, the secreted ColoUp1 polypeptide is produced by the expression of a nucleic acid having a sequence that is at least 95%, 98, 99% or 100% identical to the nucleic acid sequence of SEQ ID No: 4. Preferably, the secreted ColoUp1 polypeptide has an amino acid sequence that is at least 95%, 98%, 99% or 100% identical to an amino acid sequence selected from among SEQ ID No: 1 and SEQ ID No:2. Optionally, for detection of basolaterally secreted

ColoUp1 or ColoUp2 polypeptides, the biological sample is a blood sample or a fraction derived from blood, such as serum, plasma, cells, or a fraction enriched for apically secreted ColoUp1 or ColoUp2 polypeptide. Optionally, for detection of basolaterally secreted ColoUp1 or ColoUp2 polypeptides, the biological sample is a urine sample or a fraction derived from urine. Optionally, for detection of apically secreted ColoUp1 or ColoUp2 polypeptides, the biological sample is derived from the inner wall and/or lumen of the intestinal tract, such as intestinal mucous or other fluid, excreted stool and stool removed from within the colon. In certain embodiments, the polypeptide is detected by an assay that employs an antibody, such as an immunoprecipitation assay, a Western blot, a radioimmunoassays or an enzyme-linked immunosorbent assay (ELISA). Optionally, an assay comprises contacting the biological sample with an antibody that interacts with a secreted ColoUp1 polypeptide or a secreted ColoUp2 polypeptide. An antibody may, for example, interact with an epitope of an amino acid sequence selected from among: SEQ ID No: 1 and SEQ ID No: 2. An antibody may, for example, interact with an epitope of an amino acid sequence selected from among: SEQ ID No: 3 and SEQ ID No: 21. Optionally, the antibody is detectably labeled, such as with an enzyme, a fluorescent substance, a chemiluminescent substance, a chromophore, a radioactive isotope or a complexing agent. Optionally, the amount of at least one secreted ColoUp1 polypeptide and/or at least one secreted ColoUp2 polypeptide in the biological sample is compared to a predetermined standard (e.g., a known amount of purified ColoUp1 or ColoUp2 polypeptide). Optionally, the amount of at least one secreted ColoUp1 polypeptide and/or at least one secreted ColoUp2 polypeptide in the biological sample is compared to the subject's historical baseline. In certain embodiments, the presence of at least one secreted ColoUp1 polypeptide and/or at least one secreted ColoUp2 polypeptide is indicative that the subject is likely to harbor a colon adenoma or a colon cancer. In certain embodiments, the presence of at least one secreted ColoUp1 polypeptide and/or at least one secreted ColoUp2 polypeptide may be used in determining the therapeutic protocol to be administered to a subject having a colon neoplasia, and the subject may not have been previously diagnosed with colon cancer or the subject may have previously received or is currently receiving a therapy for colon cancer, wherein the presence of at least one secreted ColoUp1 polypeptide and/or at least one secreted ColoUp2 polypeptide indicates that the subject is likely to have a relapse or a persistent or progressive colon cancer. The detection

of said secreted polypeptide may indicate the presence of a variety of neoplasias in a subject, such as a colon adenoma, a colon cancer and a metastatic colon cancer. Optionally, a method involves detecting both at least one secreted ColoUp1 polypeptide and at least one secreted ColoUp2 polypeptide in the biological sample.